APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Jet Atomization With Centrifugal Nozzles, by S. M. Il'yashenko, 15 pp.

RUSSIAN, per, Iz VUZ, Aviats Tekhnika, No 2, 1960, pp 88-98.

SLA 60-18763

203,536

Sci

Jun 62

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Figurovskii, V. I.
CALCULATION OF THE HEATING OF TWO-LAYER PLATES, tr. by Joy B. Gazley. 15 Feb 61 [12]p. 2 refs. Rand T-140.
Order from OTS or SLA $1.60 61-23650

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Aviatsionnaya Tekhnika (USSR) 1960, no. 2 [p. 99-104].

DESCRIPTORS: *Laminates, *Heating, Measurement.

Equations are obtained that may be used for the calculation of the heating of a heat insulated plate under any law of change of surface temperature with time. It is possible to take into account the change in the heat transfer coefficient with time and if necessary the physical heat properties of the materials.

(Physics--Thermodynamics, TT, v. 6, no. 8)

61-23650

I. Figurovskii, V. I.
II. Rand T-140
III. Rand Corp., Santa Monica, Calif.
IV. Contract AF 49(638)700

136191

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Stability of an Elastic Band in a Gas Flow by
R. Ye. Lanper, 15 pp.

RUSSIAN, per, Iz Vysshikh Uchebn Zaved Aviat
Tekh, No 3, 1960, pp 12-15. 9689149

FTD-TT-63-754

Sci-Aero
Nov 63

243,434

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Approximate Modeling of Wing Flutter in a Hydro-Fan, by D. A. Manshtukov, 10 pp.

RUSSIAN, par, Iz Vyashikh Uchab Zaved Aviat Tekh, No 3, 1960, pp 16-21. 9689149

FTD-TT-63-754

Sci-Aero
Nov 63

R43,435

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Heat Transfer in the Nieghborhood of the Blunt Leading Edge of a Cylindrical Wing During Slip, by A. A. Yarkho.
RUSSIAN, per. Izv VUZ Ser Aviats Tekhn, No 3, 1960, pp 22-27.
NASA TT F-10,218

Sci-Phys
Aug 66

309,639

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Il'yashenko, S. M.
JET ATOMIZATION BY CENTRIFUGAL NOZZLES. II. LOCAL FUEL CONCENTRATION IN NON-VAPORIZING JETS [AND] VARIATION OF AXIAL FUEL CONCENTRATION AT INCREASING DISTANCES FROM THE NOZZLE SECTION. [1961] 15p. 7 refs.
Order from LC or SLA ml$2.40, ph$3.30 61-10398

Trans. of Izvestiya Vyashikh Uchebnykh Zavedeniy. Aviatsionnaya Tekhnika (USSR) 1960, no. 3, p. 57-64.

The local fuel concentration in nonvaporizing jets and the variation of axial fuel concentration at increasing distances from the nozzle section are analyzed. (See also 60-18763)

(English transl.--Aeronautical, TT, v. 5, no. 11)

61-10398

1. Fuel nozzles--Design
2. Atomization--Equipment
3. Title: Centrifugal nozzles
I. Il'yashenko, S. M.
II. Title: Local...
III. Title: Variation...

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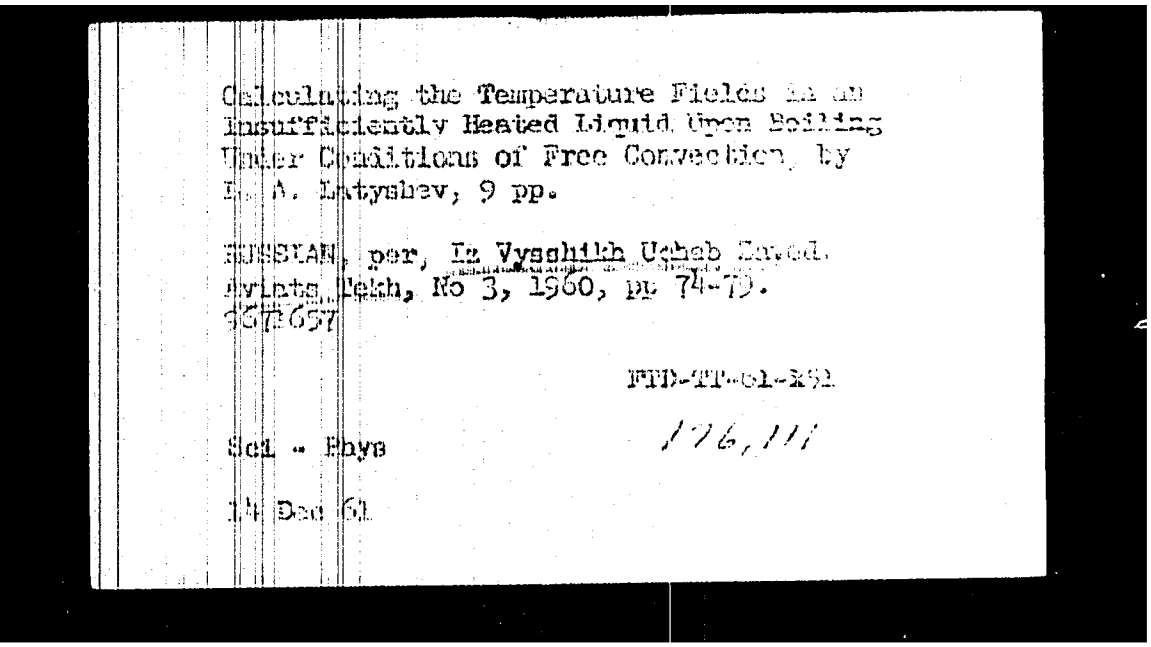
Office of Technical Services

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6



Calculating the Temperature Fields in an Insufficiently Heated Liquid Upon Boiling Under Conditions of Free Convection, by I. A. Lutyshev, 9 pp.

RUSSIAN, per, Iz Vysshikh Uchab Zaved. Aviats Tekh, No 3, 1960, pp 74-79.
657657

FTD-TT-61-891

176,111

Sci - Phys

14 Dec 61

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Popov, N. N.
ON MIXING OF GAS STREAMS. [1962] [17]p. 2 refs.
Order from OTS or SLA $1.60 62-18102

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii, Aviatsionnaya Tekhnika (USSR) 1960, no. 3, p. 80-86.

DESCRIPTORS: *Jet mixing flow, Temperature, Velocity, Gases, Compressible flow.

(Mechanics--Aerodynamics, TT, v. 9, no. 8)

62-18102

1. Popov, N. N.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

On One Method of Selecting the Parameters of the Dampers of Angular Motions of an Aircraft, by N. P. Kolpakova, S. I. Rybnikov', 5 pp.

RUSSIAN, per, Iz Vyashykh Ucheb Zaved, Aviats Tekh, No 3, 1960, pp 107-109. 96/0768

FTD MCL-1099/1

165,732

Sci - Aero

5 Sep 61

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

The Effect of the Radial Clearance on the Operation of Centrcpetal Gas Turbine, by A. P. Tunakov, 16 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Aviats~~ionnaya Tek~~ Tekh, No 4, 1960, 9170791

ATIC MCL-1041/1

Sci-
May 61

C-958

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Solution of the Extreme Problem of the Movement of a Point Having Variable Mass, by I. F. Vereshchagin, 19 pp.

RUSSIAN, per, Iz Vysshikh Uchebn Zaved, Aviats Tekh, No 4, 1960, pp 18-30. 96/3562

FTD-TT-61-189

Sci - Aero

186.241

2 Mar 62

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

A Theoretical Example of a Subsonic Flow Past a Profile With a Local Supersonic Region Terminating in a Normal Shock, by F. I. Frankl', I. N. Lenin, 16 pp.

RUSSIAN, per, Iz Vysshikh Uchebn Zaved, Aviatsn Tekh, No 4, 1960, pp 40-50. 9673553

FTD-TT-61-320

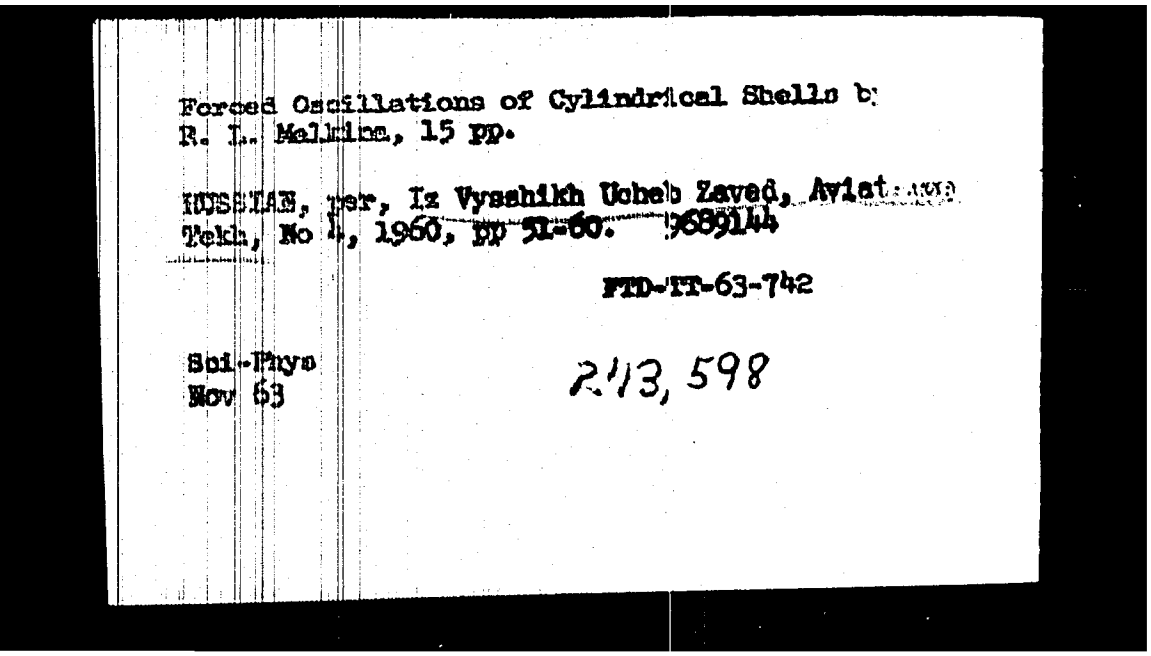
Sci - Phys

2 Mar 62

186,194

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6



Forced Oscillations of Cylindrical Shells by
R. I. Mellina, 15 pp.

RUSSIAN, per, Iz Vysshikh Uchebn Zaved, Aviat
Tekh, No 4, 1960, pp 51-60. 9689144

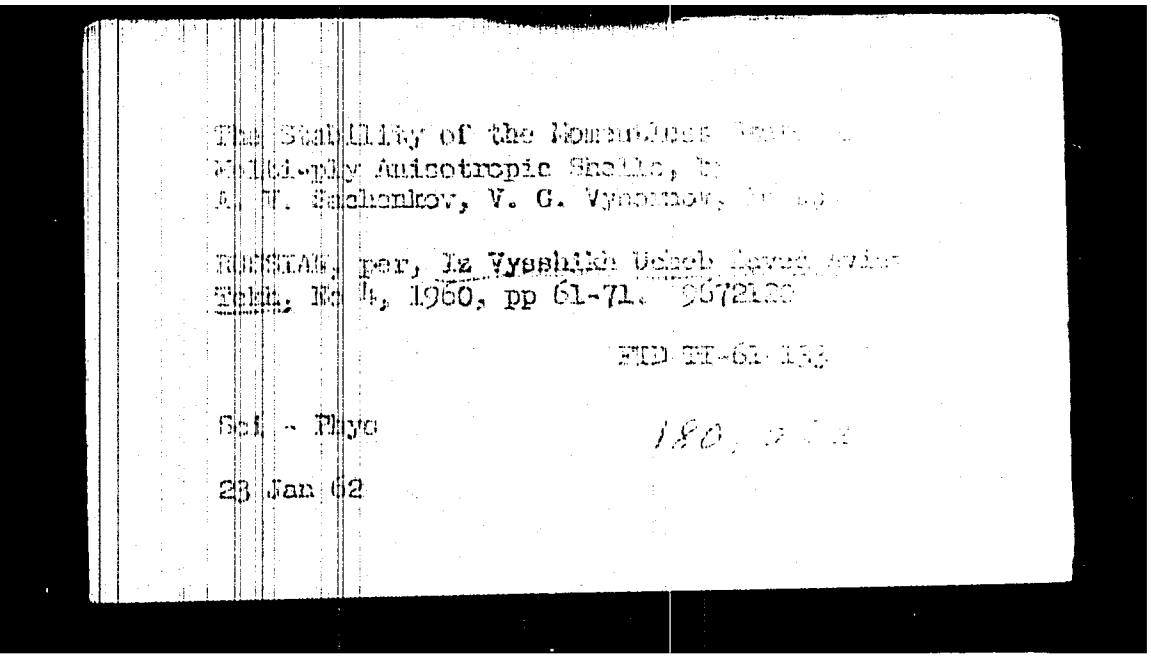
FTD-TT-63-742

Sci-Phys
Nov 63

213,598

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6



The Stability of the Nonuniform [illegible]
Multi-ply Anisotropic Shells, by
A. V. Kachanov, V. G. Vynnikov, [illegible]

RZHSTAM, per, Iz Vysshikh Uchebn Zaved Aviat
Tekh, No 4, 1960, pp 61-71. 26721[illegible]

FTD TT-62-153

Sci - Phys

180, [illegible]

23 Jan 62

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Evaporation and Combustion of a Single-Component Fuel in a Chamber of a Liquid Engine ZhRD, by S. M. Il'yashenko, 18 pp.

RUSSIAN, per, Iz Vysshikh Uchneb Zaved, Aviats Tekh, No 4, 1960, pp 72-82.
9663478

FTD MCL-1168/1

Sci - Fuels

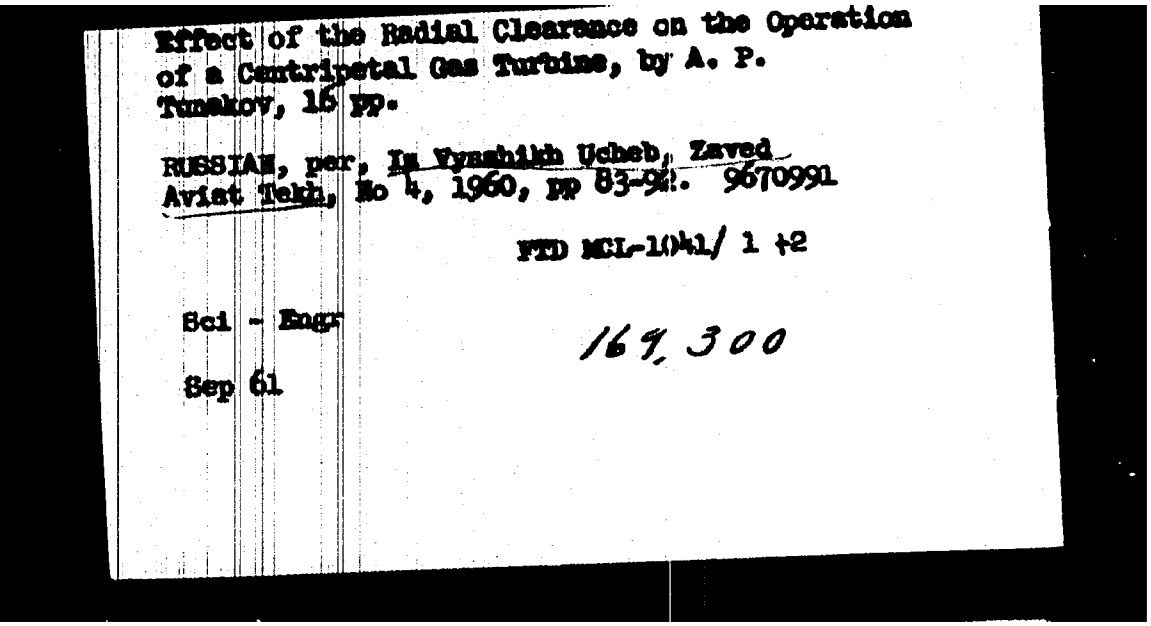
24 Oct 61

171, 826

AIAA Vol I, M.I., 963

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6



Effect of the Radial Clearance on the Operation of a Centripetal Gas Turbine, by A. P. Tumakov, 16 pp.

RUSSIAN, per, Iz Vysshikh Uchebn Zaved Aviat Tekh, No 4, 1960, pp 83-91. 9670991

FTD MCL-1041/ 1 +2

Sci - Engr

169,300

Sep 61

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Galyullin, A. S.
CERTAIN QUESTIONS ON THE FUNDAMENTAL PROBLEM OF EXTERIOR BALLISTICS OF UNGUIDED ROCKETS. [1961] [16]p. 7 refs.
Order from OTS or SLA $1.60 61-16083

Trans. of Izvestiya Vysshikh Uchebnykh Zavedeniy, Aviatsionnaya Tekhnika (USSR) 1960, no. 4, p. 117-125.

DESCRIPTORS: *Exterior ballistics, *Rockets, Stability, Mathematical analysis.

This is an excellent summary primarily of other people's results of studies on the stability and other dynamic properties of unguided ballistic rockets. An excellent bibliography is supplied in the reference list. It is interesting to note that a good feeling for the effect of various constraints or control laws can be obtained from perusing the simple examples exibited in this paper. (Translator)
(Engineering--Missiles, TT, v. 6, no. 3) (0013)

61-16083

I. Galyullin, A. S.

175225

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Kolchanov, R. A.
CALCULATION OF REQUIRED THRUST TAKING INTO ACCOUNT COMPRESSIBILITY, tr. by C. M. Weber. 14 Apr 61 [11]p. 2 refs. Rand T-139. Order from OTS or SLA $1.60 61-19806

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Aviatsionnaya Tekhnika (USSR) 1960, no. 4, p. 126-131.

DESCRIPTORS: *Supersonic flight, *Supersonic planes, Supersonics, *Thrust, *Compressible flow.

The method proposed by N. E. Zhukovskii for the graphical construction of a force triangle, the sides of which are the coefficients of weight C_w, total aerodynamic force C_R, and required thrust C_T is modified and made suitable for use for supersonic speeds. To illustrate the great potentiality of the graphical method of calculation it is shown to be adaptable to the calculation of unsteady motion of an aircraft.

61-19806

I. Kolchanov, R. A.
II. Rand T-139
III. Rand Corp., Santa Monica, Calif.
IV. Contract AF 49(638)700

[illegible]167

(Mechanics--Aerodynamics, TT, v. 6, no. 8)
Office of Technical Services

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Determination of the Thermal Characteristics of a Two-Dimensional Laminar Boundary Layer in a Compressible Gas Without a Longitudinal Pressure Gradient, in the Vicinity of the Forward Stagnation Point, by I. I. Suksov. RUSSIAN, per, Iz VUZ Ser Aviats Tekhn, No 1, 1961, pp 27-37.
NASA TT F-10,217

Sci-N, SCi
Aug 66

309,636

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Optimum Programming of the Thrust of the Power Unit When the Flight Trajectory is Given, by Ye. V. Tarasov, 13 pp.

RUSSIAN, per, Iz Vysshikh Uchob Zaved Aviats Tekh, No 1, 1961, pp 38-45. 9664300

FTD-TT-61-415

Sci - Aero

19 Mar 62

188,314

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Turbulent Wake Behind Aerodynamically Poor (Blunt) Bodies in a Bounded Stream, by G. N. Abramovich, I. S. Makarov, B. G. Khudenko, 15 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Aviat Tekh, No 1, 1961, pp 61-73.

*FTD TT-62-21

Jan 62
Sic - Aero

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

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THE TEMPERATURE FIELD OF AIR-COOLED DISCS AND RUNNER BLADES OF GAS TURBINES, BY V. I. LOKAY, 14 PP.

RUSSIAN, PER, IZ VYSSHIKH UCHEB ZAVED, AVIATS TEKH, NO 1, 1961, PP 97-104. 9665775

FTD-TT-62-326

SCI - AERO
ENGR
JUL 62

204,459

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

A Theoretical Determination of the Oscillatory Motion of a MM Winged Rocket, by A. Biryukov, 18 pp.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Aviats Tekh, No 2, 1961, pp 3-16. 9678082

FTD-TT-62-477

Sci - Engr, Aero
Sep 62

211,078

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Thin Profile Ring With Minimum Mean Coefficient of Heat Transfer for a Given Lift, by
E. V. Bulygina, et al.

RUSSIAN per, Iz Vyssh uchab zaved, Aviat Tekh, No 2, 1961, pp 17-25.

RAND CORP RM-3410-PR

Sci-Phys
Jan 63

219,913

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

The Motion of a Missile Along a Three-Point Curve With Constant Tangential Acceleration, by AX I. F. Vereshchagin, 19 pp.

RUSSIAN, per. Iz Vysshikh Uchab Zaved, XXX Aviats Tekh, No 2, 1961, pp 35-46. XXXXXXXX
9678082

FTD-TT-62-477

Sci - Phys
Sep 62

211, 180

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Monogram for the Calculation of an Aircraft's Landing Run, by V. S. Shishov.

RUSSIAN, per, Iz Vysshikh Uchebn Zaved, Aviats Tekh, No 2, 1961, pp 158-159.

NLL RMS 2014

Sci - Aero
Jun 62

201, 012

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Yasinskii, F. G.
THE GLIDING RANGE OF A WINGED AIRCRAFT WITH COSMIC VELOCITIES. [11]p 5refs.
Order from OTS, SLA, or ETC $1.60 TT-64-16381

Trans. of Izvestiya Vysshikh Uchebnykh Zavedenii. Aviatsionnaya Tekhnika (USSR) 1961, no. 3, p. 31-37.
Another trans. is available from OTS or SLA $1.60 as TT-62-25728(11)p.

(Mechanics--Aerodynamics, TT, v. 12, no. 4)

TT-64-16381

I. Yasinskii, F. G

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Calculating the Inertia of a Rudder in Certain Guidance Problems, by O. V. Grigoryeva, A. S. Kelzon, 10 pp.

RUSSIAN, per, Iz Vyssh Uchob Zaved, Aviats Tekh, No 4, 1961, pp 22-29. 9683138

FTD-TT-62-1683

Sci-Aero
Jun 65

232422

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Selection of the Optimum Parameters of a Supersonic Ramjet Engine with a Heat Exchanger, by V. T. Vorogushin. 10p.
RUSSIAN, per. Izvestiya VUZ Aviatsionnaya Tekhnika, No 4, 1961, pp 75-81. P 100091066
FTD-TT-65-581

Sci-Prop & Fuels
Jan 67

316,389

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Generalized Thermodynamic Features of Two-Circuit Jet Engines, by A. L. Klyachkin, 11 pp.

RUSSIAN, per, Iz Vyssshikh Uchebb Zaved, Ser Aviats Tekh, No 4, 1961, pp 94-103.
9676769

FTD-TT-62-446

Sci - Engr, Aero

23 May 62

196,484

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Experimental Study of Flow x in the Initial Section of a Semi-Restricted Turbulent Current, by A. M. Mkhitaryan, XX V. S. Maksimov, et al, 10 pp.

RUSSIAN, per, Iz Vysshikh Uchsb Zaved, Aviats Tekh, No 4, 1961, pp 111-119.

ACSI I-8222
ID 2224755

224,832

Sci - Phys
Mar 63

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

An Investigation of the Distribution of Stresses in Monolithic Wings, by M. B. Valhitov, 7 pp.

RUSSIAN, per, Iz Vysshikh Uchseb Zaved, Aviats Tekh, No 4, 1961, pp 128-131. 96774

FTD-TT-62-379

Sci - Aero

22 May 62

196,472

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

The Calculation of the Kinetic Energy of a Plane Absorbed by the Wheel Brakes During the Landing Run, by V. S. Shishov, Yu. G. Korotkiy, 13 pp.

RUSSIAN, per, Iz Vysshikh Uchebn Zaved, Aviats, Tekh, No 4, 1961, pp 149-155. 9676774

FTD-TT-62-379

Sci - Phys, Engr

22 May 62

196,471

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Determining Friction Characteristics in a Two-Dimensional Laminary Compressible Boundary Layer at High Temperatures and Zero Pressure Gradient, by I. I. Suksov, 14 pp.

RUSSIAN, per. Aviats Tekh. Iz Vyssh Ucheb Zaved, No 1, 1962, pp 19-31. 9683122

FTD-TT-63-90

Sci-Engr
M Jun 63

232,477

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Determining Optimum Geometric Parameters of Aviation Construction, by I. I. Drakin, 11 pp.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Aviats Tekh, No 1, 1962, pp 66-74. 9668346

FTD-TT-62-1717

Sci-engr
apr 63

229,440

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

On the Relationship Between the Total Pressure Recovery Coefficient and the Velocity Coefficient in the Supersonic Portion of a Laval Nozzle With Full or Partial Expansion of the Gas in the Nozzle, by V. S Mkr Ivanov.

RUSSIAN, per, Iz Vyshhikh Ucheb Zaved, Aviats Tekh, No 1, 1962, pp 75-81. 96 FC 147

FTD-TT-62-1643

Sci - Engr, Aero

27 Nov 62

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Approximate Method for Calculating Axisymmetrical Supersonic Isentropic Gas Flows With Little Divergence of the Flow, by V. G. Dulov, 10 pp.

RUSSIAN, per, Iz Vyssh Ucheb Zaved, Seriya Aviats Tekh, No 2, 1962, pp 8-14. 9680139

FTD-TT-62-1802

Sci-Aer Fuels & Propulsion
Apr 63

226,693

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Effect of Gyroscopic Moments From the Power Installation on the Dynamics of the Aircraft, by V. I. Klimov, 10 pp.

RUSSIAN, per, Iz Vyssh Uchob Zaved Aviats Tekh, No 2, 1962, pp 15-22. 9685093

9686743

FTD-TT-63-197

Sci-Aero

Aug 63

342,091

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Limitation of Oscillations in a Linear System of Stabilizing a Stable Longitudinal Movement, by M. Z. Litvin-Sedoy, 10 pp.

RUSSIAN, per. Iz Vyssh Ucheb Zaved Aviats Tekh, No 2, 1962, pp 39-47. 9685092

9686743

FTD-TT-63-197

Sci-Aero

Aug 63

342,092

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Calculation of Non-Stationary Temperature Fields of a Structure With Consideration of the Heat Radiation During Non-Steady Flight Programs, by E. Tyan-tsi, 13 pp.

Russian, per, Iz Vyssh Uchob Zaved, Aviats Tekh, No 2, 1962, pp 56-64. 9(8)2729

FTD-TT-62-1769

Sci-Phys
May 63

229,517

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

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Stability of a Circular Cylindrical Ex
Envelope in a Non-Uniform Temperature Field,
by V. V. Kabonov, 9 pp.

RUSSIAN, per, Iz Vyssh Uchob Zaved Aviats Tekh,
No 2, 1962, pp 65-71. 9668364

FTD-TT-62-1644

Sci-engr
apr 63

229,441

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Equilibrium Equations for Static Bending and Free Vibration of Irregularly Shaped Cantilever Plates, by B. E. Sivchikov,13 pp.

RUSSIAN, per, Iz Vyssh Ucheb Zaved, Aviats Tekh, No 2, 1962, pp 86-94. 9682729

FTD-TT-62-1769

Sci-Phys
May 63

229518

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Investigation of the Working Cascades of Turbines at Supersonic Velocities, by A. V. Gubarev, 16 pp.

RUSSIAN, per. Iz Vyssh Ucheb Zaved, Aviats Tekh, No 2, 1962, pp 102-112. 9668535

FTD-TT-63-159

Sci-Phys
May 63

230831

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

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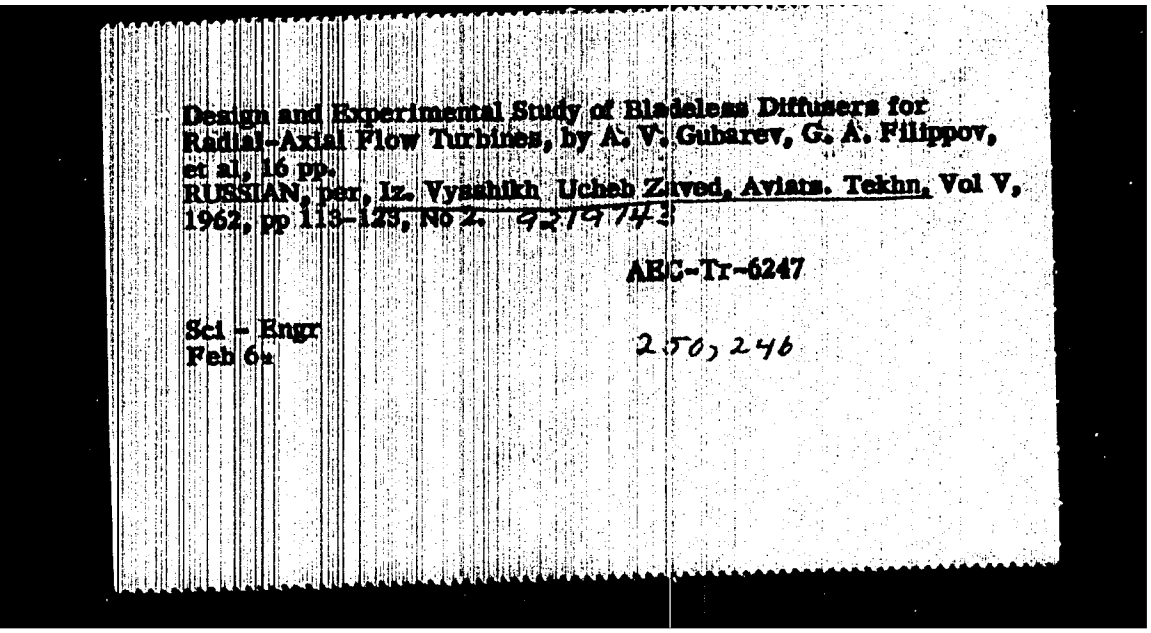

Design and Experimental Study of Bladeless Diffusers for Radial-Axial Flow Turbines, by A. V. Gubarev, G. A. Filippov, et al, 16 pp.
RUSSIAN, per, Iz. Vyasshikh Ucheb Zaved, Aviats. Tekhn, Vol V, 1962, pp 113-123, No 2. 92/9/74 2

ARC-Tr-6247

Sci - Engr
Feb 64

250,246

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

A Method of Projecting and the Results of Investigating a Vaneless Deflector for Radial-Axial Turbines, by A. V. Gubarev, et al, 14 pp.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Aviats Tekh No 2, 1962, pp 113-133. 9668364

FTD-TT-62-1644

Sci-engr
apr 65

229,442

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

The Problem of Cooling Gas Turbine Vanes by Air, by A. G. Zenukov, 11 pp.

RUSSIAN, per. Iz Vyssh Uchab Zaved, Aviats Tekh, No 2, 1962, pp 130-137. 9681651

FTD-TT-63-70

Sci-Aero
May 63

TIL T 5374 229,486

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Throttling in Turbojet Engines, by A. L. Klyachkin, A G Smirnov.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Aviats Tekh, No 2, 1962, pp 138-151.

*FTD-TT-62-1644

Sci - Engr, Aero

27 Nov 62

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Effect of Velocity Instability of an Unbounded Flow Past
Bodies on the Coefficient of Heat Transfer, by
L. I. Kudryashev, I. A. Gusev.
RUSSIAN, per, Iz Vysshikh Uchreb Zaved Aviat Tekkh,
No 2, 1962, pp 152-158.
Navy Tr 3760/APL T956

Sci - Engr
Apr 64

255,097

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

An Approximation Method for Calculating ~~XXX~~ Steady-State Uniform Gas Flow in a Tube With Equilibrium Dissociation and Ionization, Taking Into Account Resistance, by I. I. ~~X~~ Suksov, 13 pp.

RUSSIAN, per. Iz Vyssh Uchab Zavod, Aviats Tekh, No 2, 1962, pp 159-167. 9668535

FTD-TT-63-159

230,832

Sci-Phys
May 63

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

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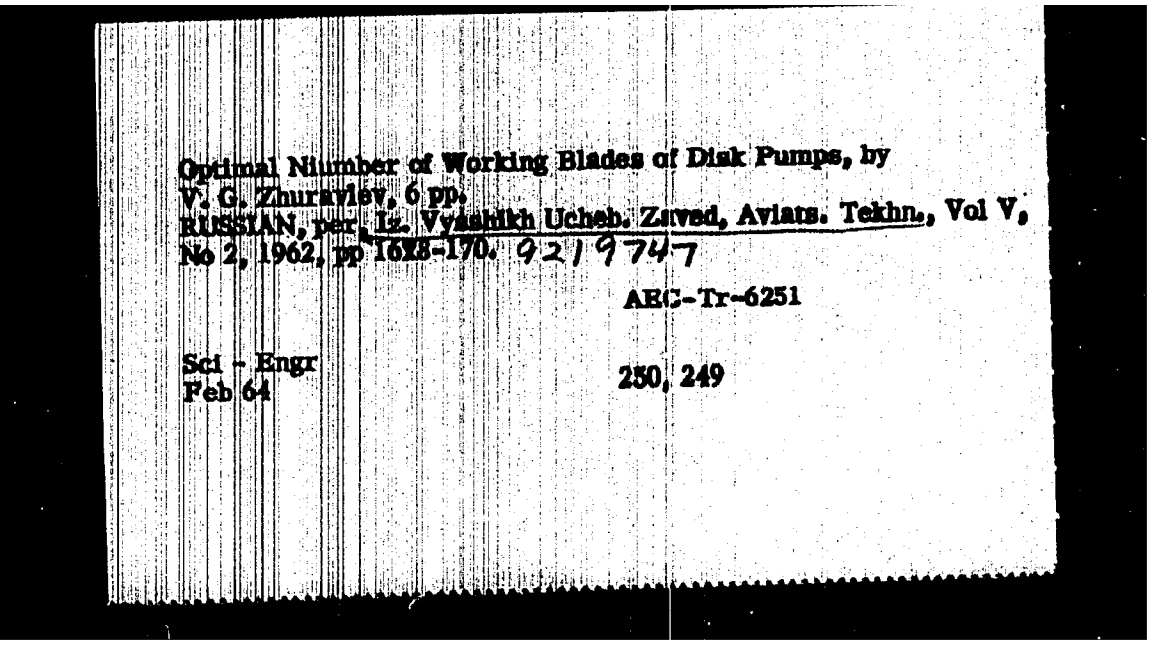


Optimal Number of Working Blades of Disk Pumps, by V. G. Zhuravlev, 6 pp. RUSSIAN, per. iz. Vysshikh Uchab. Zaved, Aviats. Tekhn., Vol V, No 2, 1962, pp 165-170. 92197477

ARC-Tr-6251

Sci - Engr
Feb 64

250, 249

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Certain Variational Problems on Approximation, and Interaction, by G. I. Kostychev, 13 pp.

RUSSIAN, per, Iz Vyssh Ucheb Zaved Aviats Tekh, No 3, 1962, pp 25-33. 9615129

FTD-TT-63-401

Sci-Aero

Aug 63

343,051

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

The Stability of a Cylindrical Sandwich Shell With a Corrugated Metal Filler Exposed to the Joint Action of Axial Force and External Pressure Beyond the Elastic Limit, by I. A. Yefimov, 12 pp.

RUSSIAN, per, Iz Vyssh Ucheb Zaved, Seriya Aviats Tekh, No 3, 1962, pp 79-86. 9683123

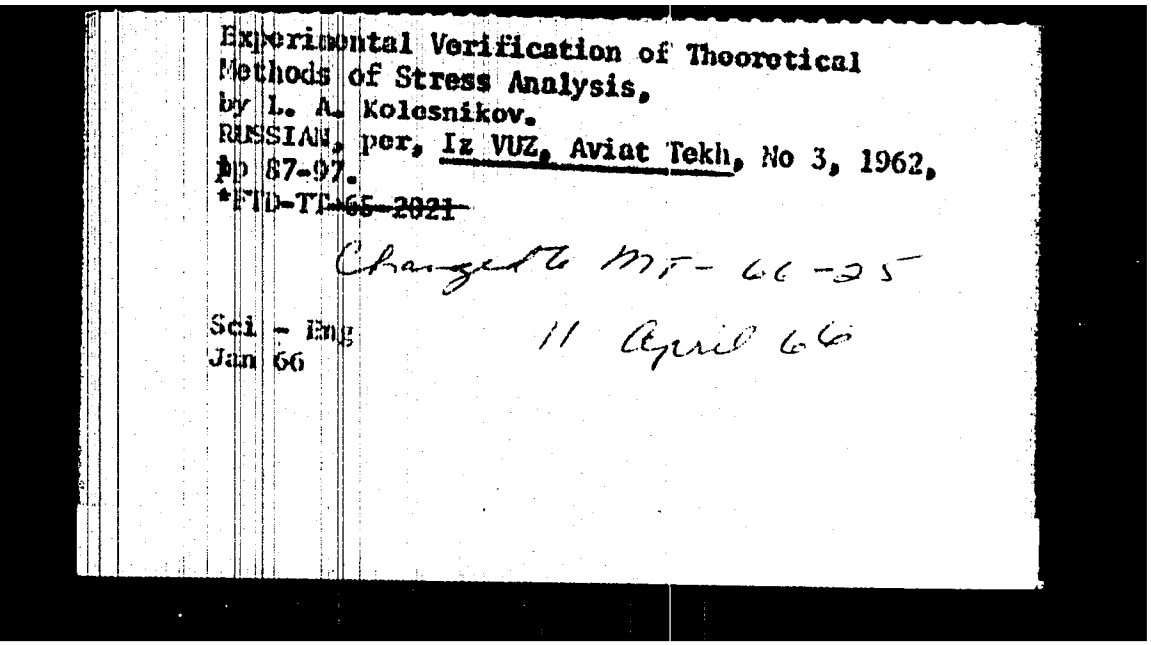
FTD-TT-63-203

Sci-Engr
Jun 63

232,470

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6



Experimental Verification of Theoretical Methods of Stress Analysis,
by L. A. Kolesnikov.
RUSSIAN, per, Iz VUZ, Aviat Tekh, No 3, 1962, pp 87-97.
*FTD-TT-65-2021

Changed to MT-66-25

11 April 66

Sci - Eng
Jan 66

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Calculation of Losses in Diffusers Without Separation, by A. E. Zaryankin, 14 pp.
RUSSIAN, per. Iz. Vysshikh Uchsb. Zavod, Aviats, Tekhn., Vol V, No 3, 1962, pp 157-165. 92197 45

AEC-Tr-6250

Sci - Engr
Feb 64

250, 248

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

A Method for Economic Analysis of the Reliability of Parts and Systems of Flying Vehicles, by I. I. Drakin, 15 pp.

RUSSIAN, per, Iz Vyssh Uchob Zaved, Seriya Aviats Tekh, No 3, 1962, pp 177-186. 9683123

FTD-TT-63-203

Sci-Engr
Jun 63

232,471

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

The Optimality of Multistage Rockets, by O. F. Makarov, 13 pp.

RUSSIAN, per. Iz Vyssh Ucheb Zaved, Seriya Aviatsionnaya Tekhnika, No 4, 1962, pp 18-26.
9685489

FTD-TT-63-427

Sci-Aero

Aug 63

343,625

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Designing Structurally Orthotropic Shells of Revolution, by Ye. F. Burmistrov, 12 pp.

RUSSIAN, per, Iz Vyssh Ucheb Zaved, Aviat Tekh, No 4, 1962, pp 57-67. 9690464

FTD-TT-63-813

Sci - Engr
Jan 64

248,669

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Equations of Equilibrium and Oscillations of Three-Layer Shells, by M. I. Il'gamov, 16 pp.

RUSSIAN, per: Iz Vyssh Uchob Zaved, Aviat Tekh, No 4, 1962, pp 68-78. 3690464

FTD-TT-63-813

Sci - Engr
Jan 64

248,670

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Heat Transfer and Resistance of Slotted Channels With Oval Conical Stamplings by I. G. Fedorov, 11 pp.

Russian, par, Iz Vysshikh Uchebn Zavod, Aviatsionnaya Tekhnika, No 4, 1962, pp 145-150. 9687660

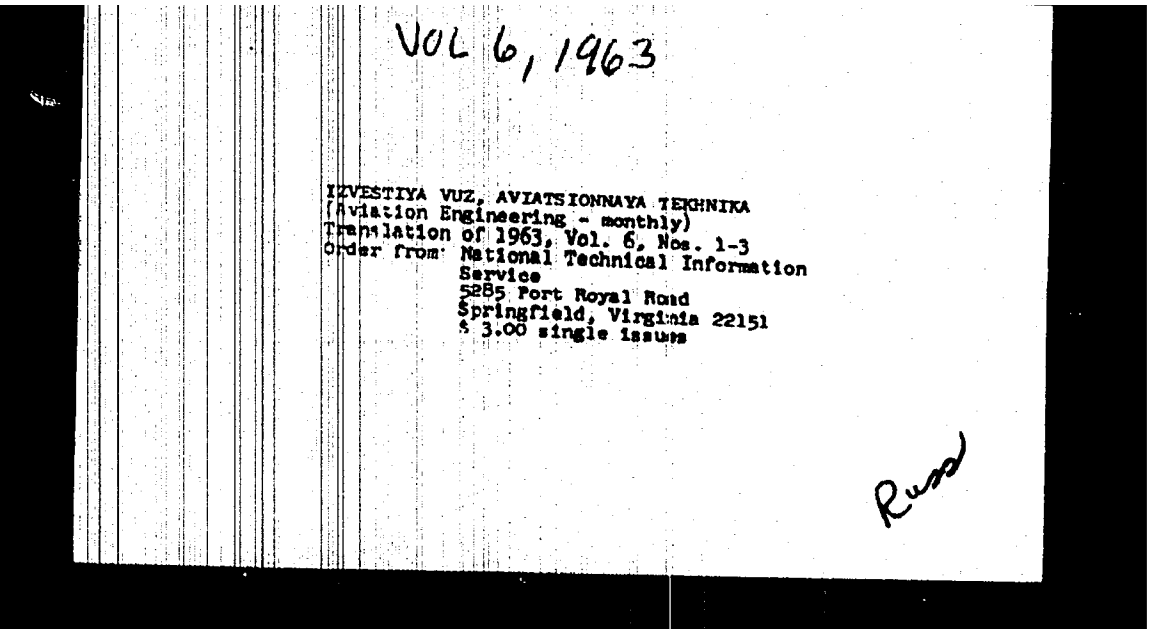
FTD-TT-63-617

Sci-Phys
Nov 63

241, 546

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6



APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Sirazetdinov, T. K.
OPTIMAL PROBLEMS OF GASDYNAMICS. [1964] [17]p 3refs
Order from OTS, SLA or ETC $1.60 TT-64-16021

Trans. of Izvestiya Vyashikh Uchebnykh Zavedenii. Aviatsionnaya Tekhnika (USSR) 1963, [v. 6] no. 2, p. 11-21.
Another trans. is available from OTS $3.00 in TT-64-21246, JPRS-22668 (p. 11-23).

(Mechanics--Aerodynamics, TT, v. 12, no. 4)

TT-64-16021

I. Sirazetdin[illegible], T. K.

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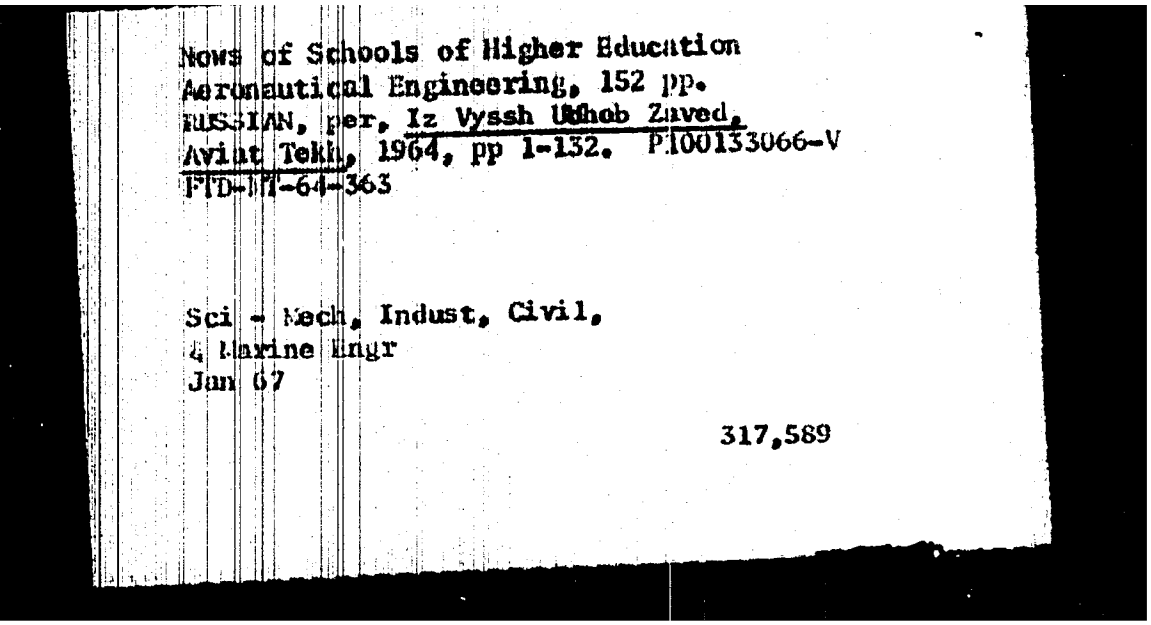

News of Schools of Higher Education
Aeronautical Engineering, 152 pp.
RUSSIAN, per. Iz Vyssh Uchob Zaved,
Aviat Tekh, 1964, pp 1-132. P100133066-V
FTD-TT-64-363

Sci - Mech, Indust, Civil,
& Marine Engr
Jan 67

317,589

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

An Approximate Method of Calculating a Thermally Insulated Layer With Account Taken of Radiation
by G. A. Matuzok.
RUSSIAN, per, Izvestiya VUZ Aviatsionnaya Tekhnika, Vol 7, No 3, 1964, pp 117-123.
Navy tr 4968 APL JHU TG 230-T493

Sci/Nuclear Sci
Nov 66

311,561

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

News of Schools of Higher Education, Aeronautical Engineering, 143 pp.
RUSSIAN, per. Izvestiya Vysshikh Uchebnykh Zavedniy. Aviatsionnaya Tekhnika, No 4, 1964.
F100366267-v
FTD-HT-66-260

Sci-Aero
Dec 67

346,798

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Influence of Internal Pressure on the Stressed State of a Cylindrical Shell During Bending, by E. V. Antonenko, 6 pp.
RUSSIAN, per, Iz Vyssh Uchab Zaved, Aviat Tekh, No 4, 1964, pp 40-46.
CIA/FDD X-5605

Sci - Phys
May 65
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278,397

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Stability of an Anisotropic Circular Cylindrical Shell Under the Combined Effect of External Pressure and Longitudinal Stresses, by V. V. Kabanov, 6 pp.
RUSSIAN, per, Iz Vyssh Uchebn Zaved, Aviats Tekh, No 4, 1964, pp 46-51.
CIA/FDD X-5556

Sci - Phys
Mar 65
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276,891

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Friction and Windage Losses in Rotor Blade Assemblies of Radial-Flow Turbines of Helicopter and Transport Gas Turbine Power Plants, by N. F. Galitskiy, RUSSIAN, per, Izv VUZ Ser Aviats Tekhn, Vol VII, No 4, 1964, pp 60-66. NASA TT F-10,118

NASA TT-F-447 - P-19040467

Sci-Aero
Jul 66

304,1203

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

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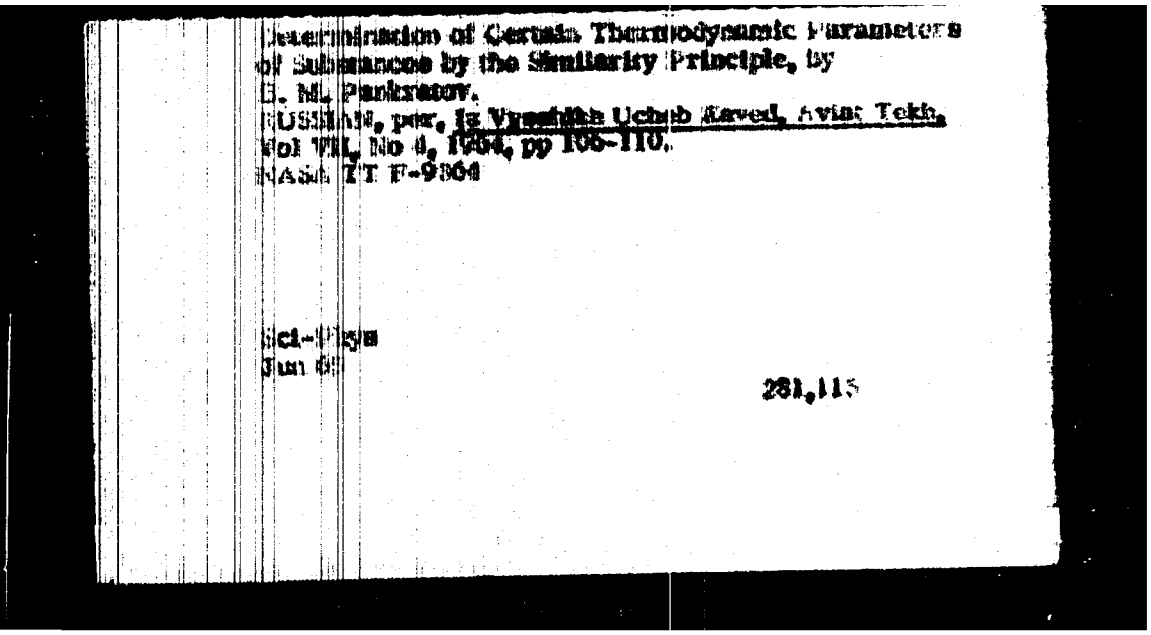

Determination of Certain Thermodynamic Parameters of Substances by the Similarity Principle, by
E. M. Pankratov.
[USSR], per. iz Vysshikh Uchab Zaved, Aviat Tekh,
Vol VII, No 4, 1964, pp 105-110.
[Abst. FT F-9364

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Jun 65

281,115

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

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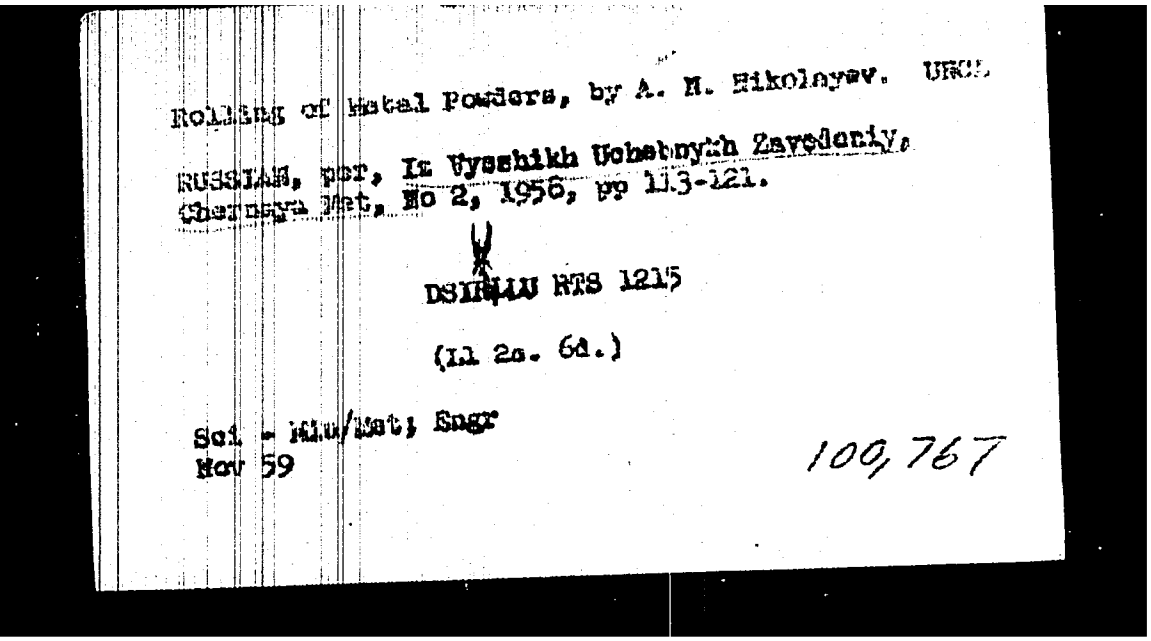

Rolling of Metal Powders, by A. N. Nikolayev. UKR.

RUSSIAN, per, Iz Vysshikh Uchebnykh Zavedeniy, Chernaya Met, No 2, 1956, pp 113-121.

DSIR/AU RTS 1215

(11 2s. 6d.)

Sci - Min/Met; Engr
Nov 59

100,767

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

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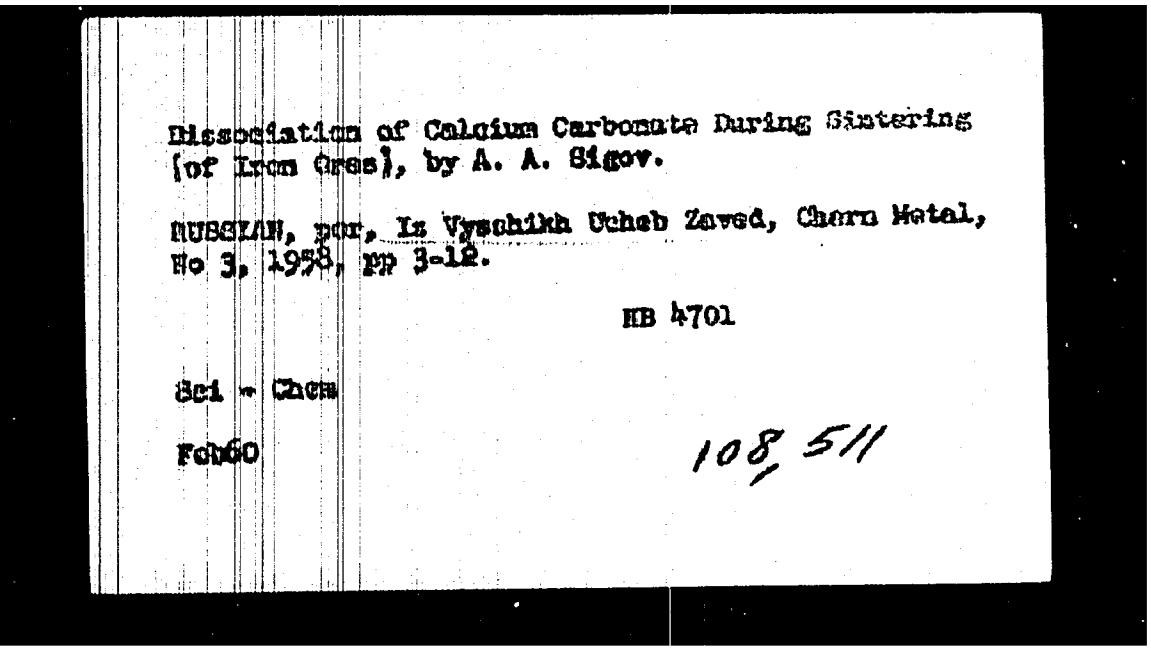

Dissociation of Calcium Carbonate During Sintering (of Iron Ores), by A. A. Sigov.

RUSSIAN, pub, Iz Vysshikh Uchab Zaved, Chern Metal, No 3, 1958, pp 3-12.

HB 4701

Sci - Chem

Feb60

108, 511

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Continuous Casting of Steel Studied on the Basis of a Hydraulic Model, by A. A. Ekvortsov, A. D. Akimenko.

RUSSIAN, per, Iz Vyschikh Uchebn Zaved, Chern Metal. Mar 1958, pp 21-26.

HB 5949

Sci - M/M
Jul 59

235,728

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Types of Tundish Used in Multi-Strand Continuous Casting of Steel, by E. I. Isaev, I. T. Kushnarov, et al.

RUSSIAN, per, Iz Vyssh Uchab Zavod, Chern Met No 3, 1958, pp 29-35.

HB 5952

Sci-Materials & Metallurgy July 63

235,781

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Formation of Surface Layers on Ingots During the Filling of Open-Ended Molds by Bottom Pouring, by Yu. N. Yakovlev.
RUSSIAN, par. IZVEST. VUZ-Chern. Met., Vol 1, No 3, 1958, pp 34-41.
HB 7434

Sci/Mat
June 68

358.259

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Formation of a Continuously-Cast Steel Slab and the Incidence of Surface Cracks, by A. A. Skvortsov.

RUSSIAN, per, Iz Vyssh Uchob Zavod Chern Met, No 7, 1961, pp 78-87.

IIB 5347

Sci-Materials & Metallurgy
July 63

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Effect of Inoculants on the Surface Tension of Cast Iron, by A. Ya. Khrapov, V. P. Chernobrovkin.

RUSSIAN, per, Iz Vysshikh Uchneb Zaved, Cern Metal, No 3, 1958, pp 42-51.

HB 5282

Sci - Chem

182,764

Feb 62

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Resistance to Deformation of Carbon and Nickel Steels and Alloys to Deformation, by M. A. Zaikov.

RUSSIAN, per, Iz Vyasshikh Ucheb Zaved, Chern Metal, No 4, 1958, pp 103-116.

BISI 1845

Sci - Min/Met

Jul 61

160,153

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

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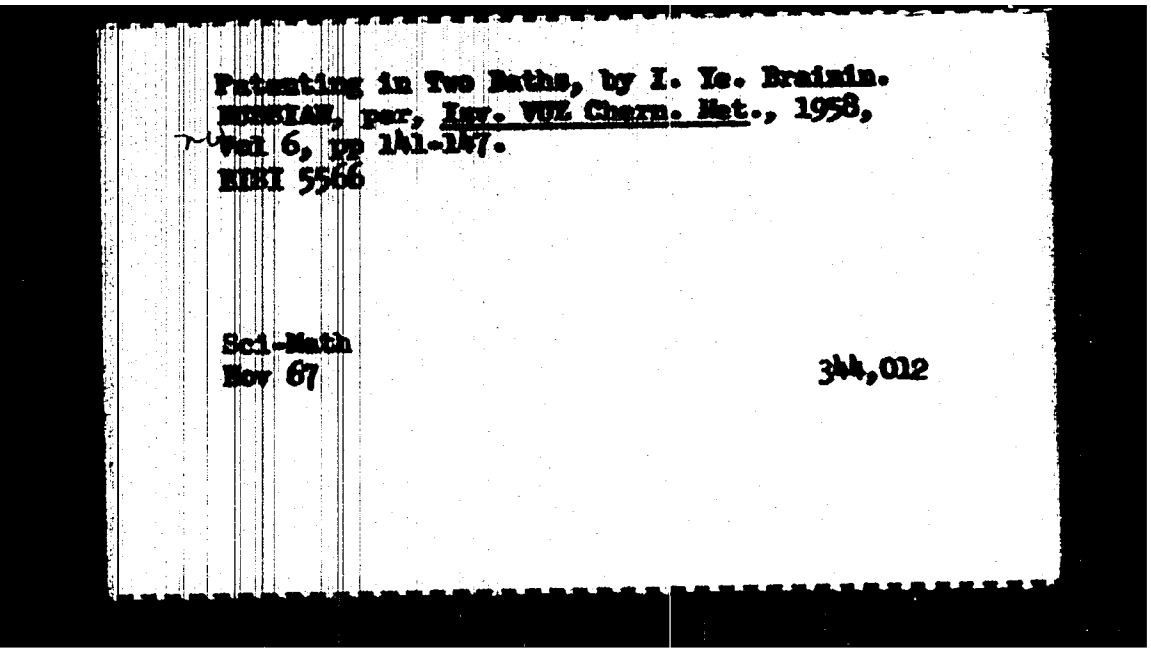

Patenting in Two Baths, by I. Ye. Brainin.
MEKHIAN. per, Izv. VUZ Chern. Met., 1958,
Vol 6, pp 141-147.
RISI 5566

Sci-Math
Nov 67

344,012

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

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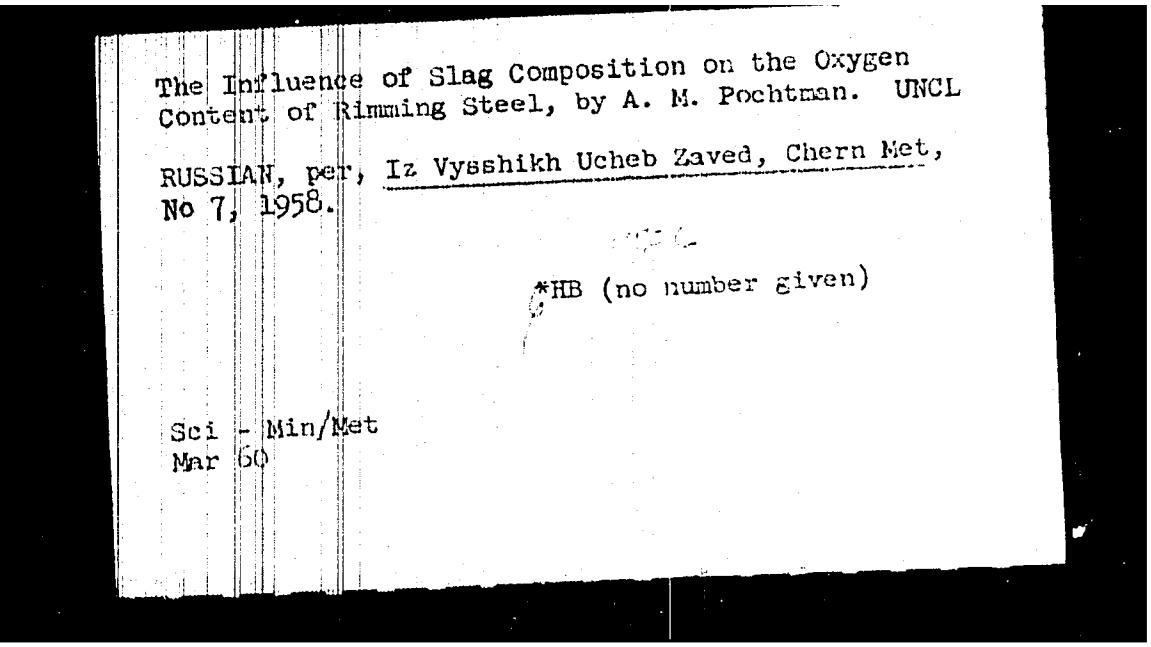

The Influence of Slag Composition on the Oxygen Content of Rimming Steel, by A. M. Pochtman. UNCL

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Met, No 7, 1958.

*HB (no number given)

Sci - Min/Met
Mar 60

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

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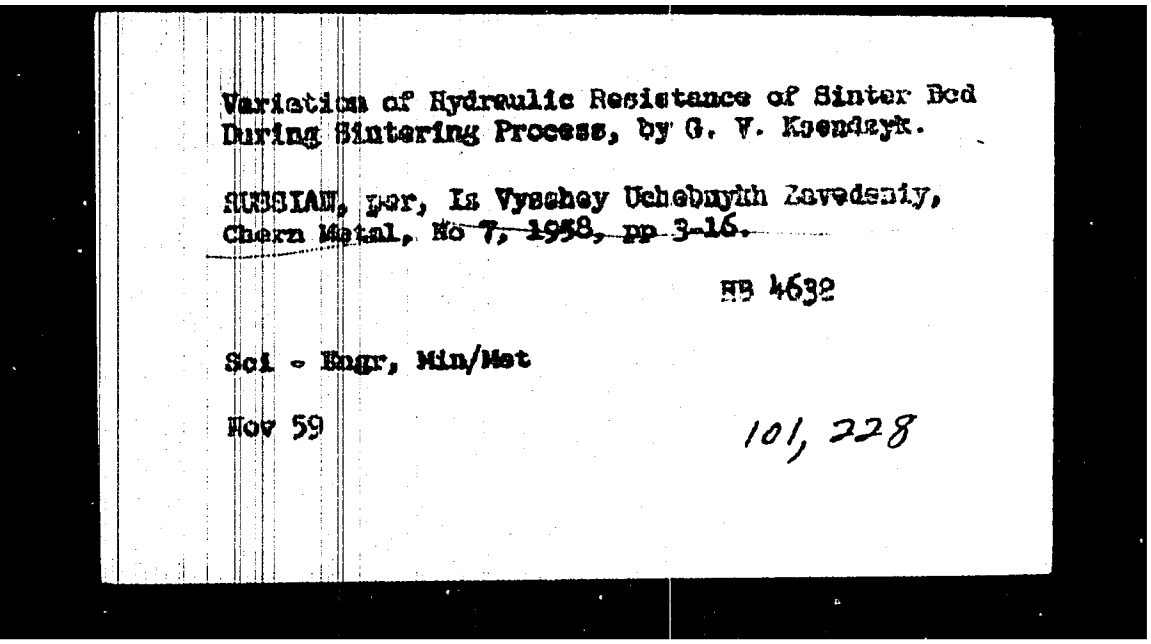

Variation of Hydraulic Resistance of Sinter Bed During Sintering Process, by G. V. Kvendzyk.

RUSSIAN, per, Iz Vysshey Uchebnykh Zavedeniy, Chern Metal, No 7, 1958, pp 3-16.

NB 4632

Sci - Engr, Min/Met

Nov 59

101, 228

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

APPROVED FOR RELEASE: Wednesday, May 29, 2002 CIA-RDP91-00772R000201130023-6

Effect of Slag Composition on Oxygen Content of Rimmed Steel, by A. M. Pochtman.

RUSSIAN, per, Iz Vysshikh Ucheb Zaved, Chern Metal, No 7, 1958, pp 29-35.

HB 4726

Sci - Min/Met

Jun 60

118,421

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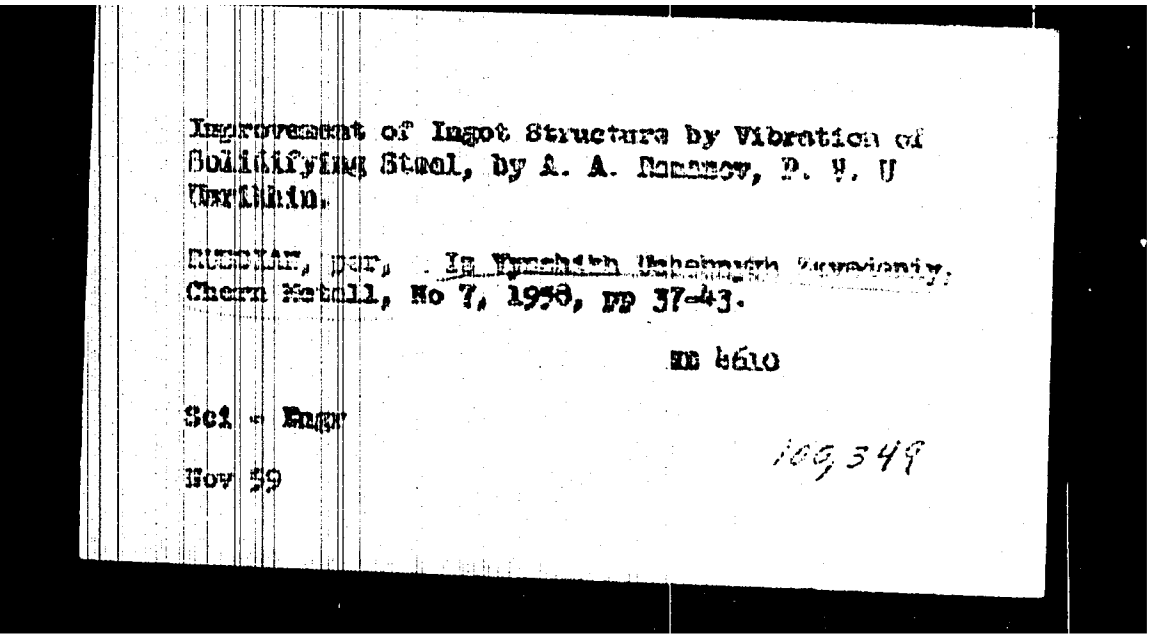

Improvement of Ingot Structure by Vibration of Solidifying Steel, by A. A. Ramanov, D. Y. U Ukrainian.

Russian, par, In Ymeshich Uchebnykh Zavedeniy, Chern Metall, No 7, 1958, pp 37-43.

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